Notebook Series -- Notebooks by Edison
Notebook, N-11-06-00

This undated notebook was used by Edison, probably during June 1911. The entries report on the evaluation of various chemicals from E. De Haën of Hanover, Germany, for use in making phonograph records. Individual entries note the melting points, hardness or viscosity, character of crystallization, and sometimes the price of the compounds being tested. The inside back cover contains some rough calculations by an unidentified employee. Inserted into the book is an unrelated memorandum from Peter Christensen to Edison regarding an electrolyte produced in June 1911. The pages are unnumbered. Only 12 pages have been used.

17)

Dettaine Bug Rat Chemi –

Dinitrochloro benzol –
Dont Cryst, fine Solvent, lumpid –
Low Centry lots wholesale –
Curious – Cheap 25c lb –
too soft after hour 192 6 million
chemicals Crystlzg

Dichloroaniline –
No Cryst – lumpid –
Low MP –

Dioxynaphthalene MP. Too high.
Dutchman –

Paradichloro benzol
Dont Cryst – Low MP
Very lumpid

Something on this —

Something — +

Hexachloroethane Dont melt well

Nitroguanidin — has water — ng

Orthotoluenesulphamide Mp Lilleleigh
ng

Nitrotoluol para Very Low MP —
1st Gallon Cryst 2nd 1/3 cryst primarily
around Edge after 20 min —
this would be a Gute for Lowering
MP of Crystal enough — 1st but cryst
2nd after 13 hours 4th is so separates off in 4 hours
wood Cut & longer than cellulose non cryst Tough as horn
Slit dash —

Monomethylparamidophenol Dont melt

Paraformaldehyde 30c 26 —
Very Low MP — Very Lumpy with the
1st Gallon Cryst 2nd ditto 5 min after pour
Slight fumes Stuck together — minutes
Dont smoke though —
1 2 & 3rd Gallon Bright — 3rd took 2 hours — 4th
very flex 5th brittle —

Pyrocatechin — Low MP — Dont Cryst — Sticky
+ 2nd Gallon — ng

Dianisidin (Base) — jet black mix even 1st
Gallon — MP Cliff high - like Tetra nap —
make good coloring medium for new
record — mix on even 3rd gallon rather
thick - viscous
Even threads jet black — extremely small
amount showed color mix —
4th Gallon ropy thick hard to stir
well to get able pour seems to want
to condense yet by stirring its ok
but very ropy + thick mix looks like
Curlords — No Crystal 1st Gallon
Hard There is some chemical
Reaction probably —
it might result in ~~temp~~ Reg Tetra Nap
mix in profoundly altering reaction
as well as color — green fuzzy
5 5 5 2 3 + 4 gallon looks dark
auto — Gritty — best hard — ~~[illegible]~~
~~auto~~

Nitroaniline Ortho pure MP low -

Monochloroacetanil - Very low MP —
Para even 6th Gallon lumpy —
no crystals all very soft
1st sticky — last gallon tough like cellulose
acts like triphenylmethane - semi-soluble heat.

Melalaleuca diamond base
MP low — Dont dissolve well —
Smeaks considerably
~~at~~ poured 3rd Gallon — very thick
hard skin — 1st Gal Cryst slix dusk
2nd soft slix dusk 3rd hard bottle comes
off cellar —

Leptospermum phenol
MP rather high good solvent ~~[illegible]~~ etc
Somewhat dissolved with Gulf oil
No cryst — 1st bottle hard bottle
slix dusk — all stick to dusk very bad

Orthoxylyl phenol
1st Gallon Cryst = MP fairly low —
sublime little — Black bottom
1st bot Cryst — slix dusk bad 2nd non C
slix bad

Might do for Galoomy

This has the hardest surface of all cryst
Can't scratch with finger nail

Benzanilide. —
Quite clumpy — mod imp — 2nd bottom
Cryst — 1st & 2nd bottoms cryst
good — 1st bottom comes free dark auto
2nd slex 1/2 = very lacrd & good —
3rd but 1/3 chips off tough fine cut long cut brittle
ditto 4 & 5th —

Benzphenol — Low MP — mod —
no cryst safe 1st & 1st cryst — 2nd soft
$4 Diflex — 2nd + up tough flex +
Come off dark very fine surface
+ then cryst on scratch very poly lamination
2nd & 3rd upper 66 cryst — next day all cryst
but last bottom remelted very flexible cryst bottom
very hard, mass

Nitrodiphenyl Para
Very lace MP — 65-66
Extremely clumpy mix
1st bottom cryst opaque together than others
Comes off dark good fine surface flex by hand
other bottom flex comes off dark — not like bottom
in morning 5 bottom crystalline — but bottom flex
not giving up water

Paranitrodin Neg sticky to brittle

Retene from Dett once cryst from Alc Low MP very
by wod — 1st but cryst slix dark
2nd Button fine cut Extremely tough-big cut
Brittle slix dark this is true of 3 + 4th

Nitroanthracene & Acetic —
NG

Tribromophenol 1 + 2nd Dirty
3 + 4th Comes off 6 dark flux
good surface — leaves black
Trichlorophenol —

Beta Naphtol ~~wod~~ Low MP, sublimes little
1st button not flat — good solvent,
1st 10 min no cryst —

Phenanthren (white) –
1st Gallon not flat – Cryst running
Lumpid to 2nd Gallon, 3rd Lumpid – Crysts
Lumpidly as ok with this – 3rd Gallon
mix comes off slippery on round drops
good Solvent –

Nitrophenol Ortho – Low MP
Very Lumpid – 10 mm no Cryst –
1st but starts Cry 12 min – Very thin flat bottom

Orthonitroparatoluol Low MP –
Lumpid – 10 mm no Cryst

Nitrophenol Para — Rather high MP
Bumped on 1st bottom Crystal quick —

Paramethoxyacetanilide — too high
MP —

Benzidine — Very thick = no crystal

Phenylenediamine Para Basic
MP rather high — bottom bumped mix
1st bottom flat Crystal
2nd bottom Crystal, quick — mix thickens
4th bottom too thick mix —

Phenacetin — MP Lillehaugh
1st Company gone — Lumpid — on Dec 4th
2nd Company gone —

Paranuclear antigen? — Low MP —
Very lumped — Have 1st bottom

$C_{10}H_8$ 8 Cl. = $C_{10}H_4Cl_4$ 4 H Cl

128 283.6 266 145.6

.02 142

2,56 .04

5,68

2,56

266 | 8.24 | 1.03

798

266

2 - .50

1 - .1.1

[ITEMS(S) FOUND IN BOOK]

Report of ~~Work~~
for
Mr. T. A. Edison.
For the month of June
1911

#6

	Grams	Pounds
Solution of Nickel	856570	1886.3
Crystals "	209517	461.7
Total amount	1066,087	2348

Drums made Electrical

21 No 7 Coil + 50 gr Lots p. 2	39
25 " " " 15 " " " "	12
21 " " " 2 " " 17 Sec	1
Total	52

L. Christensen